

20020613.qrp v02_n585.qrl.20020613

Date: Thu, 13 Jun 2002 19:03:11 EDT
From: qrp-l@Lehigh.EDU
To: "Low Power Amateur Radio Discussion" <qrp-l@Lehigh.EDU>
Subject: QRP-L digest 2585

QRP-L Digest 2585

Topics covered in this issue include:

- 1) [128030] English version manual for Tokoyo HI-POWER HC-100 TUNER
by "johngabbard" <johngabbard@usintouch.com>
- 2) [128031] Re: Neophyte question
by alan.kaul@att.net
- 3) [128032] HW-7 for sale
by VA3TO <hduff@rogers.com>
- 4) [128033] Four State QRP Group Luncheon Get-together
by "David Bixler" <qrp@netins.net>
- 5) [128034] NC20 "Manhattan Style"
by "Carel Mulder" <cmulder@wanadoo.nl>
- 6) [128035] Re: Neophyte question
by Pete Burbank <plburbank@kih.net>
- 7) [128036] NEQRP CW Net, 13 June 02, 8:30 PM EDT, 3.565 MHz
by Chuck Ludinsky <cjl@mitre.org>
- 8) [128037] Re: Miniature 'PC' platform suggestions...thanks and whaddaya think about this?
by Dave Richards <wr3i@earthlink.net>
- 9) [128038] Correction about Neophyte
by Pete Burbank <plburbank@kih.net>
- 10) [128039] wallet boxes
by "Stuart Rohre" <rohre@arlut.utexas.edu>
- 11) [128040] Logging other Region 2 Field Day contacts
by "Stuart Rohre" <rohre@arlut.utexas.edu>
- 12) [128041] Glacier hamfest QRP Get-together
by Bruce Rattray <rattray@gpfn.sk.ca>
- 13) [128042] Re: Possible trip info for Sat. on the AT in PA
by "Ron Polityka" <wb3aal@fast.net>
- 14) [128043] [CONTEST] N2CQ QRP Contest Calendar June 15-30, 2002
by "Ken Newman" <n2cq@dandy.net>
- 15) [128044] Re: ARRL June VHF Contest
by "Lau, Zack, W1VT" <zlau@arrl.org>
- 16) [128045] Solar Controller Circuit?
by "M.M." <markem@cox.net>
- 17) [128046] Re: Solar Controller Circuit?
by bob evinger <wd9eka@evinger.com>
- 18) [128047] Re: Solar Controller Circuit?
by "blinn" <blinn@smgazette.com>

- 19) [128048] RADIO SHACK DX398
by DENNIS SMITH <ne4o@swbell.net>
- 20) [128049] Re: Solar Controller Circuit?
by "DTX" <dtx@wood.tzo.com>
- 21) [128050] Re: RADIO SHACK DX398
by <igeq100@iupui.edu>
- 22) [128051] Re: RADIO SHACK DX398
by brickle <brickle@pobox.com>
- 23) [128052] Software Update...
by "Ray Goff" <radioham@gmx.co.uk>
- 24) [128053] Re: confessions of a hacker
by Mike Czuhajewski <wa8mcq@comcast.net>
- 25) [128054] Converting from 20m/15m to 17m?
by adamvaz@palm.net (Adam Vazquez)
- 26) [128055] FS: K1
by "Jeff Davis" <n9avg@att.net>
- 27) [128056] Collins Radio Parts
by "johngabbard" <johngabbard@usintouch.com>
- 28) [128057] Collins Radio Parts...SOLD
by "johngabbard" <johngabbard@usintouch.com>
- 29) [128058] IC706 to Atas-100 Interface
by AF5Uqrp@aol.com
- 30) [128059] Call for Summer FOXes
by "Doc Lindsey K0EVZ" <lindsey425@cs.com>

Date: Wed, 12 Jun 2002 16:03:33 -0700
From: "johngabbard" <johngabbard@usintouch.com>
To: "Low Power Amateur Radio Discussion" <qrp-l@lehigh.edu>
Subject: [128030] English version manual for Tokoyo HI-POWER HC-100 TUNER
Message-ID: <012501c21265\$60b18a00\$58861c0c@juanita>
MIME-Version: 1.0
Content-Type: text/plain;
charset="iso-8859-1"
Content-Transfer-Encoding: 7bit

My manual is in Japanese of which I know little. anyone have the english version ? Thanks john...72

Date: Wed, 12 Jun 2002 23:16:03 +0000
From: alan.kaul@att.net
To: plburbank@kih.net
Cc: Pete Burbank <plburbank@kih.net> ,

"Low Power Amateur Radio Discussion" <qrp-1@Lehigh.EDU>
Subject: [128031] Re: Neophyte question
Message-ID:
<20020612231621.EPZQ13408.mtiwmhc22.worldnet.att.net@webmail.worldnet.att.net>

On the ARRL members only website:

the six page article on the NEOPHYTE

<http://www.arrl.org/tis/info/pdf/28814.pdf>

--

Alan Kaul, LaCanada, CA 91011
w6rc1@amsat.org
<http://home.att.net/~alan.kaul/index.html>

> Is there a URL with a good schematic of the improved Neophyte Receiver?
> 73 Pete NV4V
>
>

Date: Wed, 12 Jun 2002 19:29:20 -0400
From: VA3TO <hduff@rogers.com>
To: qrp-1@Lehigh.EDU
Subject: [128032] HW-7 for sale
Message-ID: <3D07D950.7467B1B2@rogers.com>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit

I have a Heathikit HW-7 for sale.
As commonly known, the HW-7 is not the
hottest of receivers but this one is in great
physical condition...about a 9.5+ out of 10.
Good for the collector.
Looking for US\$75 + postage.
e-mail if interested.

72 de Hugh VA3TO

Date: Wed, 12 Jun 2002 18:30:26 -0500

From: "David Bixler" <qrp@netins.net>
To: "Low Power Amateur Radio Discussion" <qrp-l@lehigh.edu>
Subject: [128033] Four State QRP Group Luncheon Get-together
Message-ID: <DBEPKBJH00EAHCKKIHPFMEGMDDAA.qrp@netins.net>
MIME-Version: 1.0
Content-Type: text/plain;
 charset="Windows-1252"
Content-Transfer-Encoding: 7bit

Greetings QRP'ers:

The June luncheon get-together of the Four State QRP Group will be this coming Saturday.

The Four State QRP Group is an informal group of QRP'ers in the area near where the states of Missouri, Kansas, Oklahoma and Arkansas meet.

Come have lunch and visit with the other area QRP'ers. No agenda, no rules, just fun!

Location: Barney's Kitchen (restaurant) in the south end of Seneca, Missouri. This is about 20 miles south of Joplin, right on the Oklahoma state line.

Date: Saturday, June 15th

Time: 11:00 AM till ???

Bring a QRP rig, project, book, magazine, QSL cards, friends, spouses, etc. for show and tell. Will be interesting to hear what everyone is doing lately.

After lunch, we will adjourn to the city park for some on-the-air fun.

More info is at: <http://www.w0ch.com/fsqrp/index.htm>

If you get lost, I'll have an HT monitoring 146.52 simplex. Hope to see you there.

72 and hope to see you there....

David Bixler W0CH
Seneca, MO
Main Web Site: <http://w0ch.com>
Mirror Site: <http://showcase.netins.net/web/w0ch>

QRP: Little Radios, Big Fun!

Date: Wed, 12 Jun 2002 22:52:51 +0200
From: "Carel Mulder" <cmulder@wanadoo.nl>
To: <qrp-1@Lehigh.EDU>
Subject: [128034] NC20 "Manhattan Style"
Message-ID: <000b01c21253\$1fdf2b20\$02c8c8c8@Zolder01>
MIME-Version: 1.0
Content-Type: text/plain;
 charset="iso-8859-1"
Content-Transfer-Encoding: 7bit

Hi gang,

I've made the first QSO with my homebrew NC20 Manhattan Style! The rig sounds FB Dave. I lent the RH20 from my friend Wim, PA3AJI to compare both transceivers.

See: <http://home.wanadoo.nl/cmulder/images/june11-01.jpg>

I made an experimental IF filter using four more-or-less matched 8.867 MHz crystals. After having solved the problem with a defect crystal in the roofing filter (the Rx seemed to be deaf) the oh so wanted CW sounded through my shack. Whooooww what an experience. I cannot find technical differences between both rigs worth mentioning except for the IF response of course. The BFR96S replacement for the 2N4427 works fine. The copper-clad board is a perfect heathsink for this type of transistor. When the rig is completely finished I will do some serious measurements to verify the original specifications of the NorCal 20. The keyer circuit is wanted still, but until now I have used exactly 100 pads.

Thank you all for the nice words and emails that I've received recently. I hope to work you soon with my homemade NC20, being the first Manhattan style project I've ever made.

And last but not least, thanks Dave Fifield for designing this beautifull piece of equipment!

72, Carel - PA0CMU

<http://home.wanadoo.nl/cmulder>

Date: Wed, 12 Jun 2002 20:04:14 -0400
From: Pete Burbank <plburbank@kih.net>
To: alan.kaul@att.net
Cc: "Low Power Amateur Radio Discussion" <qrp-1@Lehigh.EDU>
Subject: [128035] Re: Neophyte question
Message-ID: <5.0.2.1.0.20020612194924.00abbec0@KIH.net>
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"; format=flowed

Thanks Alan .
I found that one a few days ago but the board I got from Far Circuits was for the IMPROVED Neophyte and has several extra stages. I had also ordered a schematic but it's a terrible Xerox copy that I can not read. The mods were by K6EIL and I think published in QRP Classics (which I don't have a copy of). Gosh thought I owned every QRP book!!!! :-)
73 Pete NV4V Ky

11:16 PM 6/12/2002 +0000, alan.kaul@att.net wrote:
>On the ARRL members only website:
>
>the six page article on the NEOPHYTE
>
><http://www.arrl.org/tis/info/pdf/28814.pdf>
>
>--
>Alan Kaul, LaCanada, CA 91011
>w6rcl@amsat.org
><http://home.att.net/~alan.kaul/index.html>
>
>
>
> > Is there a URL with a good schematic of the improved Neophyte Receiver?
> > 73 Pete NV4V
> >
> >

Date: Wed, 12 Jun 2002 20:57:17 -0400
From: Chuck Ludinsky <cjl@mitre.org>
To: neqrp@jonal.net, qrp-1@lehigh.edu
Subject: [128036] NEQRP CW Net, 13 June 02, 8:30 PM EDT, 3.565 MHz
Message-ID: <3D07EDED.40707@mitre.org>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii; format=flowed
Content-Transfer-Encoding: 7bit

The New England QRP Club's WQ1RP 80M CW net meets again on Thursday night, 13 June 2002, at 8:30 PM EDT (00:30Z, 14 June 02) on or near 3.565 MHz. Net control operator for this week's session will be Chuck, K1CL, operating from Chelmsford, MA.

Conditions were rather rough last week, with static bursts from a thunderstorm in the area reaching well over S9. Nonetheless, we had a good net with eight participants:

WB1HBE	John	Chelmsford, MA	599
K1CWZ	Spi	Nashua, NH	349
W1CFI	Paul	Falmouth, MA	479
KA3WMJ	Ken	Erwinna, PA	479
N3XRV	Chris	Oxford, PA	479
AA1MY	Seab	Bethel, ME	479
N1VS	Vince	Winsted, CT	359
K1CL	Chuck	Chelmsford, MA	net op

Seab put a plug in for Lobstercon, so I'll mention it here again.
Should be a great even with good food and better QRP camaraderie.

Thanks to everyone for their QNI, and hope to hear you on Thursday night.

72 DE K1CL,
Chuck.

Date: Wed, 12 Jun 2002 21:34:34 -0400
From: Dave Richards <wr3i@earthlink.net>
To: "Low Power Amateur Radio Discussion" <qrp-1@lehigh.edu>,
n4qa@hotmail.com
Subject: [128037] Re: Miniature 'PC' platform suggestions...thanks and whaddaya

think about this?

Message-ID: <98ZY65D897KHFCDCMI311FBQMSRML61.3d07f6aa@Home4>

MIME-Version: 1.0

Content-Type: text/plain; charset="windows-1252"

seams quite a heavy and large beast for a hand pc?

Dave

6/12/2002 5:40:29 PM, "Bill, N4QA" <n4qa@hotmail.com> wrote:

>Gang,

>

>Many thanks to all who made suggestions, both on-list and off...

>

>While I still have some research to do, I ran across the following while

>surfing the web over the past couple of days:

>

>TIQIT eightythree handheld pc:

>

><http://www.tiqit.com/eightythree.html>

>

>

>Quatech IOP-241 24-line PCMCIA digital I/O card:

>

><http://www.dpie.com/pcmcia/iop241.html>

>

>

>If this stuff is for real... not vaporware (AND if a second mortgage is not

>required to finance their purchase) these might constitute one possible

>answer to my quest for an itty-bitty PC and interface for extant and future

>QRP project fun!

>Look out, I'm gettin' excited again <:)

>

>Thoughts/observations ?

>

>73.

>Bill, N4QA

>

>

>

>

>-----
>Send and receive Hotmail on your mobile device: <http://mobile.msn.com>

>

>

Date: Wed, 12 Jun 2002 21:47:37 -0400
From: Pete Burbank <plburbank@kih.net>
To: qrp-1@lehigh.edu
Subject: [128038] Correction about Neophyte
Message-ID: <5.0.2.1.0.20020612214314.00abb2e0@KIH.net>
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"; format=flowed

Sorry for the mis-information. The improved Neophyte article was in Spr-94 Hambrew magazine.
I guess I'll tough it out with this awful Xerox copy.
73 Pete NV4V

Date: Wed, 12 Jun 2002 21:20:26 -0500
From: "Stuart Rohre" <rohre@arlut.utexas.edu>
To: "Paul Womble" <pwomble1@tampabay.rr.com>, <qrp-1@Lehigh.EDU>
Subject: [128039] wallet boxes
Message-ID: <024701c21280\$e19b4b40\$4e100a0a@rohredt2000>

There are some neat Father's Day specials in various boxes at unlikely box places like Office Depot.

I found a wallet box around Christmas at a dept. store that was a nicely finished Wood hinged lid box for a QRP tube rig some future time.
72,
Stuart K5KVH

Date: Wed, 12 Jun 2002 22:05:03 -0500
From: "Stuart Rohre" <rohre@arlut.utexas.edu>
To: <qrp-1@Lehigh.EDU>, <k8dd@arrl.net>
Subject: [128040] Logging other Region 2 Field Day contacts
Message-ID: <02c901c21287\$1d15d450\$4e100a0a@rohredt2000>

ARRL web site says to use DX for FD QSO outside US and Canada sections.
Section list on arrl.org for those.
72,

Stuart K5KVH

Date: Wed, 12 Jun 2002 22:22:20 -0600 (CST)
From: Bruce Rattray <rattray@gpfn.sk.ca>
To: QRP-Canada <qrp-canada@neale.gpfn.sk.ca>,
Low Power Group <qrp-l@LeHigh.EDU>
Subject: [128041] Glacier hamfest QRP Get-together
Message-ID: <Pine.LNX.4.33.0206122208180.31742-100000@neale.gpfn.sk.ca>
MIME-Version: 1.0
Content-Type: TEXT/PLAIN; charset=US-ASCII

Here's an idea of something to do at the QRP Get-together (Saturday from 9:00 am to 11:00 am) this year at the Glacier/Waterton hamfest July 19,20,21, as well as the usual Show & Tell format...

...I'd like to arrange a demonstration of how to use Spectrogram to align a K2...I can bring my K2 along with a power supply, a noise generator, a cable to connect to a computer. a dummy load, tweaking tools, my manual..

...but I was wondering if something else could bring a computer with Spectrogram on it?...

...please get in touch with me direct asap and we'll see if we can make this possible...I have the feeling that everyone will be quite interested in seeing this demonstration...it would also help VERY MUCH if we had someone who could explain the Spectrogram process as well...

..72/73 - Bruce (VE5RC+VE5QRP) QRP-C#1 QRP-L#886 ARCI#9683 Zombie#272
A-1 Operator Club - 10/10# 944 - QRP Borg#1 - Whiner#10 -
- VE5QRP SOC#11 - VE5RC SOC#12 - oo#148 - K2#2032 - COG#15 -
"QRP! How sweet it is!" "I am da man wit "DAH" paddle!"

Date: Thu, 13 Jun 2002 06:58:33 -0400
From: "Ron Polityka" <wb3aal@fast.net>
To: ".G-QRP Club" <GQRP@egroups.com>, ". QRP-L" <qrp-l@lehigh.edu>,
". NJ QRP-L" <njqrp@njqrp.org>
Subject: [128042] Re: Possible trip info for Sat. on the AT in PA
Message-ID: <000e01c212c9\$42fb7f20\$5ce35cd1@wb3aal>
MIME-Version: 1.0

Content-Type: text/plain;
charset="iso-8859-1"
Content-Transfer-Encoding: 7bit

Hello,

If the WX gives us a break, we planning on being on the Appalachian Trail near the Berks County and Schuylkill County line, PA, on this Saturday, June 15th.

Carter, N3AO, hopes to try 10.116 +/- using my Elecraft K1 QRP kit. I'll use a 10-pack of AA rechargeable Nickel Metal Hydride 1600 batteries for my power supply. I'll probably operate at 4 watts to a simple dipole cut for 30 meters. I'll use the mini Paddlette screwed onto the tilt stand for the K1. Don't go too fast for me, now...

Ron, WB3AAL, will be using his K1 four band radio on 40, 30, 20 & 15 m. I will first be testing out new transmission line for the 66' doublet. Then once I am satisfy with the results I will be on the air.

We hope to be on the air around 1500 UTC. If you guys are there, we will stay on for a couple of hours or so... we hope to give out lots of contacts.

If you haven't started working on your Appalachian Trail Award program sponsored by the EPA QRP Club, maybe Saturday is the day to start! See <http://www.n3epa.org> for information.

Ron has a back log of new awards to hand out soon with his QSL's from the trail. We are re-thinking the award structure. More news on that this weekend.

Pray for good weather! We won't go if it's raining. If we have to cancel, there will be a message posted around 1200 UTC.

73,

Carter N3AO
EPA Nr. 13

&

72
Ron de WB3AAL
www.n3epa.org/

Date: Thu, 13 Jun 2002 08:36:08 -0400
From: "Ken Newman" <n2cq@dandy.net>
To: "N4SO" <N4SO@Juno.com>, "W3BG" <W3BG@arrl.net>,
"N9AVG" <N9AVG@amsat.org>,
Subject: [128043] [CONTEST] N2CQ QRP Contest Calendar June 15-30, 2002
Message-ID: <000c01c212d6\$e691a080\$5c891c42@18.95.182.twsn1.md.home.com>
MIME-Version: 1.0
Content-Type: text/plain;
charset="iso-8859-1"
Content-Transfer-Encoding: 7bit

N2CQ QRP CONTEST CALENDAR

June 15-30, 2002

All Asian DX Contest (CW)

Jun 15 - 0000z to Jun 16 - 2400z

Rules: <http://www.jarl.or.jp/English/0-2.htm>

"Asian DX stations a bunch"

West Virginia QSO Party (SSB/CW)... QRP Category

Jun 15 - 1600z to Jun 16 - 0200z

Rules: <http://www.qsl.net/wvarrl/>

"Need WVA?"

Marconi Memorial Contest (CW) ... QRP Category

Jun 22 - 1400z to Jun 23 - 1400z

Rules: <http://www.qsl.net/ik6ptj/>

"Marconi Memorial"

ARRL Field Day (CW/SSB/RTTY)... QRP Category

Jun 22 - 1800z to Jun 23 - 2100z

Rules: <http://www.arrl.org/contests/rules/2002/rules-fd-2002.html>

"Everybody will be here"

~~~~~

QRP ARCI Milliwatt Field Day (ALL)... QRP Contest!

Jun 22 - 1800z to Jun 23 - 2100z

Rules: <http://personal.palouse.net/rfoltz/arci/mwfd.htm>

"Enter your QRP FD group here"

~~~~~

SP QRP Contest (CW) ... QRP Contest!

Jun 29 - 1200z to Jun 30 - 1200z

Rules: <http://www.sk3bg.se/contest/spqrp.htm>

"Work Everyone"

~~~~~

Thanks to SK3BG, LA9HW, WA7BNM, ARRL and others  
for assistance in compiling this calendar.

Please foreward the contest info you sponsor to N2CQ@ARRL.NET and  
we will post it and give it more publicity.  
Anyone may use this "QRP Contest Calendar" for your website, newsletter,  
e-mail list or other media as you choose.  
(Include a credit to the source of this material of course.)

\*\*\*\* QRP Contest Calendar \*\*\*\*  
<http://www.njqrp.org/data/contesting.html>  
<http://www.n3epa.org/Pages/Contest/contest.htm>  
<http://www.qsl.net/cqrp/contests.html>

72 de  
Ken Newman - N2CQ  
N2CQ@ARRL.NET

-----  
Date: Thu, 13 Jun 2002 09:40:18 -0400  
From: "Lau, Zack, W1VT" <zlau@arrl.org>  
To: "'qrp-1@Lehigh.EDU'" <qrp-1@Lehigh.EDU>  
Subject: [128044] Re: ARRL June VHF Contest  
Message-ID: <125490A005E3D3118C9C00805FC743CC027E338C@KAHLESS>  
MIME-Version: 1.0  
Content-Type: text/plain;  
        charset="iso-8859-1"

<http://www.ntay.com/contest/a2002.html>

The Practical Wireless 144 MHz QRP contest  
this weekend has a power limit of 3 watts PEP.

They only allow ssb, cw, and fm.

73--Zack Lau W1VT

-----  
Date: Thu, 13 Jun 2002 10:25:20 -0400  
From: "M.M." <markem@cox.net>  
To: qrp-1@lehigh.edu  
Subject: [128045] Solar Controller Circuit?  
Message-ID: <20020613142520.GTCA1131.lakemtao07.cox.net@smtp.central.cox.net>  
MIME-Version: 1.0  
Content-Type: text/plain; charset=ISO8859\_1  
Content-Transfer-Encoding: 7bit

Anyone have a simple circuit for a solar battery charger controller? Seems I remember one being mentioned here a while back but wasn't paying attention. Don't need anything fancy...I'll be charging a single deep-cycle battery on camping trips. Panel output is about 4 Amps. Any references will be appreciated. Off-list email would be fine: markem@cox.net.

Tks & 73...      Mark      AA7TA

-----  
Date: Thu, 13 Jun 2002 10:24:43 -0500 (CDT)  
From: bob evinger <wd9eka@evinger.com>

To: "M.M." <markem@cox.net>  
Cc: Low Power Amateur Radio Discussion <qrp-1@Lehigh.EDU>  
Subject: [128046] Re: Solar Controller Circuit?  
Message-ID: <Pine.LNX.4.33.0206131021110.8723-100000@wd9eka\_srv.evinger.com>  
MIME-Version: 1.0  
Content-Type: TEXT/PLAIN; charset=US-ASCII

Unl,ess you are really motivated to build one there is a 4.5 amp commercial unit that can be had for around 30-35 dollars from [www.realgoods.com](http://www.realgoods.com).

Probably available elsewhere also. I bought one to control a 20 watt panel on our horse barn because I just didnt have time to mess with building up a controller quickly. Was in the middle of an EMT class at the time. Would have to go out to the barn and check the name, dont remember it, but it seems to work pretty wel and is compact.

73

bob

On Thu, 13 Jun 2002, M.M. wrote:

> Anyone have a simple circuit for a solar battery charger controller? Seems I remember one being mentioned here a while back but wasn't paying attention. Don't need anything fancy...I'll be charging a single deep-cycle battery on camping trips. Panel output is about 4 Amps. Any references will be appreciated. Off-list email would be fine: markem@cox.net.

>

> Tks & 73... Mark AA7TA

>

>

>

--

Bob Evinger WD9EKA/AAR5MG(Army MARS operator)  
If Guns Cause Crime, Then Matches Cause Arson.

-----  
Date: Thu, 13 Jun 2002 08:51:10 -0700  
From: "blinn" <blinn@smgazette.com>  
To: <wd9eka@evinger.com>,  
"Low Power Amateur Radio Discussion" <qrp-1@Lehigh.EDU>  
Subject: [128047] Re: Solar Controller Circuit?  
Message-ID: <000801c212f2\$252bac80\$6f8aa242@blinn>  
MIME-Version: 1.0  
Content-Type: text/plain;

charset="iso-8859-1"  
Content-Transfer-Encoding: 7bit

Take a look here for a homebrew circuit.

<http://www.homepower.com/files/pvcontrol.pdf>

Bill - WA7TQK

---  
Outgoing mail is certified Virus Free.  
Checked by AVG anti-virus system (<http://www.grisoft.com>).  
Version: 6.0.365 / Virus Database: 202 - Release Date: 5/24/02

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-----  
Date: Thu, 13 Jun 2002 11:13:53 -0500  
From: DENNIS SMITH <ne4o@swbell.net>  
To: qrp-l <qrp-l@Lehigh.EDU>  
Subject: [128048] RADIO SHACK DX398  
Message-ID: <000901c212f5\$50b19ce0\$323ffea9@Default>  
MIME-version: 1.0  
Content-type: text/plain; charset=iso-8859-1  
Content-transfer-encoding: 7BIT

HAS ANYONE TRIED TO USE A DX398 ON THE HAM BAND? EVEN WITH A EXTERNAL AUDIO  
FILTER WILL IT BE USABLE?  
THANKS DENNIS W5VAF

-----  
Date: Thu, 13 Jun 2002 09:20:10 -0700  
From: "DTX" <dtx@wood.tzo.com>  
To: <markem@cox.net>,  
"Low Power Amateur Radio Discussion" <qrp-l@lehigh.edu>  
Subject: [128049] Re: Solar Controller Circuit?  
Message-ID: <009c01c212f6\$30df71c0\$0c00a8c0@home>  
MIME-Version: 1.0  
Content-Type: text/plain;  
charset="iso-8859-1"  
Content-Transfer-Encoding: 7bit



And for those for whom the challenge of making it work is almost as good as building from scratch <G> there is a unit from Goldmine for \$12.95.....T7000 with all the parts in place and no enclosure(?) I personally did not get one but noticed for a friend who was looking for similar item.

Gary WA6DTX

----- Original Message -----

From: "M.M." <markem@cox.net>

To: "Low Power Amateur Radio Discussion" <qrp-1@Lehigh.EDU>

Sent: Thursday, June 13, 2002 7:25 AM

Subject: Solar Controller Circuit?

> Anyone have a simple circuit for a solar battery charger controller? Seems I remember one being mentioned here a while back but wasn't paying attention. Don't need anything fancy...I'll be charging a single deep-cycle battery on camping trips. Panel output is about 4 Amps. Any references will be appreciated. Off-list email would be fine: markem@cox.net.

>

> Tks & 73... Mark AA7TA

>

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Date: Thu, 13 Jun 2002 11:38:29 -0500 (EST)

From: <igeq100@iupui.edu>

To: DENNIS SMITH <ne4o@swbell.net>

Cc: Low Power Amateur Radio Discussion <qrp-1@Lehigh.EDU>

Subject: [128050] Re: RADIO SHACK DX398

Message-ID: <Pine.GS0.3.96.1020613113708.14309A-100000@jade.iupui.edu>

MIME-Version: 1.0

Content-Type: TEXT/PLAIN; charset=US-ASCII

Hi, Dennis -

I have not used my DX398 with a transmitter, but I can copy CW on it fairly well using the filter in my head. It's worth a try.

72,.

Rich, WB9LPU

On Thu, 13 Jun 2002, DENNIS SMITH wrote:

> HAS ANYONE TRIED TO USE A DX398 ON THE HAM BAND? EVEN WITH A EXTERNAL AUDIO  
> FILTER WILL IT BE USABLE?

> THANKS DENNIS W5VAF

>

>

>

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Date: Thu, 13 Jun 2002 12:51:21 -0400  
From: brickle <brickle@pobox.com>  
To: ne4o@swbell.net  
Cc: Low Power Amateur Radio Discussion <qrp-1@Lehigh.EDU>  
Subject: [128051] Re: RADIO SHACK DX398  
Message-ID: <3D08CD89.DDD988C2@pobox.com>  
MIME-version: 1.0  
Content-type: text/plain; charset=us-ascii  
Content-transfer-encoding: 7BIT

> HAS ANYONE TRIED TO USE A DX398 ON THE HAM BAND? EVEN WITH A EXTERNAL AUDIO  
> FILTER WILL IT BE USABLE?

A DX398 was my sole source of CW practice during the two years I was gearing back up to 20wpm to get relicensed. Took it everywhere. Just last week I brought it out again for my XYL to fool around with on vacation, and so had a chance to compare it side-by-side with an FT-817 on a short antenna.

Verdict: it's OK for casual listening, especially things like SW broadcasts and the W1AW bulletins, etc. But except as a curiosity I'd hate to try to operate with it. An outboard filter might help the selectivity, but it won't improve the sensitivity or the coarse tuning.

73  
Frank  
AB2KT

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Date: Thu, 13 Jun 2002 17:46:36 +0100  
From: "Ray Goff" <radioham@gmx.co.uk>  
To: "Low Power Amateur Radio Discussion" <qrp-1@Lehigh.EDU>  
Subject: [128052] Software Update...  
Message-ID: <FDEOKGEJJFNPABJIJGDDIEKDEHAA.radioham@gmx.co.uk>  
MIME-Version: 1.0  
Content-Type: text/plain;  
                charset="iso-8859-1"  
Content-Transfer-Encoding: 7bit

For anybody using my Koch CW training software, I have put updates on my web site today.

73/72's de Ray g4fon

RSGB, BATC, GQRP-10698  
QRP-L 2378, QRP-ARCI 11153  
ray@g4fon.co.uk  
www.g4fon.co.uk

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Date: Thu, 13 Jun 2002 12:54:11 -0400  
From: Mike Czuhajewski <wa8mcq@comcast.net>  
To: qrp-l@Lehigh.EDU  
Cc: wa8mcq@comcast.net  
Subject: [128053] Re: confessions of a hacker  
Message-ID: <000301c212fa\$f19e42c0\$33333044@gambrl01.md.comcast.net>  
MIME-version: 1.0  
Content-type: text/plain; charset=iso-8859-1  
Content-transfer-encoding: 7BIT

>At first I thought it was my diodes, since I had substituted Schottky 1 amp rectifiers for the 1N34As called for in George and Joe's design. I made a special trip to buy the 1N34As, and it still didn't work.

Although replacing the Schottky rectifiers with 1N34As didn't fix the problem, it was still a good thing to do :-) Schottky rectifiers really shouldn't be used as RF detectors of any sort. If you want absolute accuracy, such as trying to measure powers, they are distinctly inferior and I have the test data to back it up. Their output falls off significantly as frequency is increased. You can measure two signals of different frequencies but exactly the same power, and get very different readings from the diode. And you'll think you have lower power at the higher frequency, when in fact it's the same as the lower frequency.

If you want to use Schottky rectifiers in something that only requires a relative indication, such as a field strength meter, then they CAN be acceptable, at least at HF. With a field strength meter you're usually just looking for maximum signal strength as you tune things up, and the actual voltage coming out of the diode isn't important.

The problem with Schottky power rectifiers is that they have a high internal capacitance which is effectively in parallel with the junction. As frequency increases the impedance of this capacitance decreases, effectively putting a

lower resistance across the diode. The same problem exists with silicon power rectifiers (and I have test data to prove that, too).

A good thing to use for a diode detector for RF use is a Schottky small signal diode, or a germanium small signal diode such as the 1N34. These have low internal capacitance and give good performance with increasing frequency. BTW, in my experiments I took one of those Schottky small signal diodes, which would otherwise have excellent frequency response, and made it look as bad as a power rectifier. I put a 100 pF surface mount ceramic capacitor in parallel with the diode. (This is in the ballpark of the capacitance range of power rectifiers.) When plotted out in Microsoft Excel, the frequency response curve of the small signal Schottky with capacitor across it was just as horrible as the curve of either type of power rectifier :-)

So, for RF detector use, Schottky is OK but you really should use a small signal Schottky diode instead of a Schottky power rectifier. What can complicate things is that some catalogs can lump all Schottky diodes, power or small signal, under "rectifier;" I think there's a section of the DigiKey catalog that does it. And when I bought some 1N5711 small signal Schottky diodes from the local Active Electronics store a few years back, the label clearly indicated that it was a rectifier. And technically it is, just a very low power one.

I had a post a couple of months back on this topic. I may have also given a good source of small signal Schottky diodes (Allied Electronics is one). I had some detailed discussion of my experiments, as well as diode procurement, in my Idea Exchange column in the April 2002 issue of the QRP Quarterly. The July issue contains further info, along with the "smoking gun" frequency response curves, and I'll eventually write up the last part of the series for the October issue. (That presumes that I'll still be writing the column at that time.)

The bottom line is don't use power rectifier diodes of any sort in RF detector circuits, either Schottky or silicon, unless you can live with output voltages that will vary significantly with frequency. (Interestingly, small signal silicon diodes weren't all that great, which was surprising. They were nowhere near as bad as the power rectifiers, but not as good as the germaniums and Schottky small signals.)

73 and queue our pea DE WA8MCQ

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Date: Thu, 13 Jun 2002 13:46:22 -0400  
From: adamvaz@palm.net (Adam Vazquez)

To: qrp-1@Lehigh.EDU  
Subject: [128054] Converting from 20m/15m to 17m?  
Message-ID: <20020613174622.7622E450C@mo130uhou.palm.net>  
Content-Type: text/plain; charset=us-ascii  
Content-Transfer-Encoding: 7bit

Hello from Adam Kb2Jpd.

Anyone converted anything like a MFJ SSB radio and moved it over to 17m?

I have a Mizuho 10m but I like it. I don't want to kill it, but, anyone tried moving a 10m Mizuho to 17m?

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Date: Thu, 13 Jun 2002 15:39:39 -0500  
From: "Jeff Davis" <n9avg@att.net>  
To: "Low Power Amateur Radio Discussion" <qrp-1@Lehigh.EDU>  
Subject: [128055] FS: K1  
Message-ID: <010001c2131a\$70e8af10\$9800a8c0@N9AVG>  
MIME-Version: 1.0  
Content-Type: text/plain;  
                charset="iso-8859-1"  
Content-Transfer-Encoding: 7bit

Just in time for Field Day!

K1 #709, 4 Bander ..... \$475 shipped/insured CONUS

\* K1 built for 4 bands: 40, 30, 20, 15

\* 5-6 watts output on all bands

\* Extras include:

- + KAT1 antenna tuner
- + KTS1 Wide Range tilt stand
- + KBT1 internal battery adapter. Fully assembled but not installed in this unit.

\* All manuals/accessories included

\* Radio in like new condition

Mods and fixes applied:

- \* Tuning range ~65kHz
- \* RIT range ~1.3kHz

\* Tuning linearity mod (resistor across pin 1 & 2 of tuning Pot.)

\* K1 QSK improvement App Note

[http://www.elecrafter.com/Apps/K1\\_qlsk\\_app\\_note.htm](http://www.elecrafter.com/Apps/K1_qlsk_app_note.htm)

\* R11 on RF board changed from 82 to 68ohms to improve output power

\*\* Detailed in an email to the Elecraft Reflector by Gary Surrency, Monday, July 16, 2001.

\* AGC, IF Filter and Tuning Knob modifications see

\* Installed speaker grill cloth

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Jeff, N9AVG

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Jeff

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Date: Thu, 13 Jun 2002 14:38:32 -0700

From: "johngabbard" <johngabbard@usintouch.com>

To: "Low Power Amateur Radio Discussion" <qrp-1@lehigh.edu>

Subject: [128056] Collins Radio Parts

Message-ID: <000901c21322\$aada3c40\$72861c0c@juanita>

MIME-Version: 1.0

Content-Type: text/plain;

charset="iso-8859-1"

Content-Transfer-Encoding: 7bit

I have (3) Kings PJ-068 Microphone plugs NOS...\$5.00 ea....john...KF70M

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Date: Thu, 13 Jun 2002 14:58:51 -0700

From: "johngabbard" <johngabbard@usintouch.com>

To: "Low Power Amateur Radio Discussion" <qrp-1@lehigh.edu>

Subject: [128057] Collins Radio Parts...SOLD

Message-ID: <002301c21325\$818acc30\$72861c0c@juanita>

MIME-Version: 1.0

Content-Type: text/plain;

charset="iso-8859-1"

Content-Transfer-Encoding: 7bit

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Date: Thu, 13 Jun 2002 18:30:44 EDT  
From: AF5Uqrp@aol.com  
To: QRP-L@lehigh.edu  
Subject: [128058] IC706 to Atas-100 Interface  
Message-ID: <18d.9262e33.2a3a7714@aol.com>  
MIME-Version: 1.0  
Content-Type: text/plain; charset="US-ASCII"  
Content-Transfer-Encoding: 7bit

I never liked the idea of using a tuner, even an autotuner, to tune a long wire 102 inches long on the back of a car on 40 meters or any other band. People who run mobile will tell you the bug catches works pretty good. But I have a Camry and bug catchers are bigger than my car. I really don't want to buy a monster truck just to mount my antenna. Plus I have to deal with my XYL on this issue.

Anyway, Yaesu makes a cool screwdriver bug catcher that does not look like a bug catcher. I got one new at the price of the Super Antenna MP-2 from Texas Towers at Hamcom near Dallas. I am telling you that was a deal and the Atas-100 is quality. Enough said. But how to control the Yeasu Atas-100 with an ICOM IC-706MKIIG? Yes, there are boxes out there for sell. But, this solution was best for me - to build mine.

After some research, I found that the Atas-100 is a weird duck. It wants 10 volts or more (within limits) to raise it up, and less than 8.4 volts to lower it. It will raise just fine with 13.6vdc but does not like LM7808 regulators at all. The regulator does not like the load. I use diodes to drop 13.6 to 8 volts. It takes about 7-8 of them. And, my circuit has the tune plug built it with a switch for long and short tune times. So all you have to do is adjust the antenna length for maximum receiver noise and then readjust the length after pushing the tune button on the 706. It tunes using 10 watts in the CW mode for 5-15 seconds (set by you).

My home brew circuit allows the IC-706MKIIG to tune the Yeasu Atas-100 bug catcher screwdriver antenna. It has been tested and available for free in JPG format. The JPG includes schematic, parts list, and short write up.

It uses the voltage out of the ICOM IC-706 tuner plug on the rear of the transceiver to rise and lower the antenna. It will also allows you to tune up in the low power 10 watts CW mode for a selectable long or short time intervals. The circuit includes a bias tee that passes RF from the

transceiver to the antenna and puts the direct current on the antenna without damaging the transceiver. All of this is in one small box that is inexpensive and yet easy to build with no ICs, or transistors. It is so simple! Email me for a copy.

Dave Little, AF5U ex K5YKT  
Antenna Engineer - Kathrein - Scala Division  
AF5UQRP@aol.com

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Date: Fri, 14 Jun 2002 05:33:35 -0500  
From: "Doc Lindsey K0EVZ" <lindsey425@cs.com>  
To: <qrp-1@lehigh.edu>  
Cc: <lindsey425@cs.com>  
Subject: [128059] Call for Summer FOXes  
Message-ID: <000201c2138e\$f740ad50\$9865fea9@DCV2JF11>  
MIME-Version: 1.0  
Content-Type: text/plain;  
                charset="Windows-1252"  
Content-Transfer-Encoding: 7bit

Gang:

Sure hope good old Outlook will let me post this message [g].

Anyway...here is the first call for volunteers for the summer 2001 regular FOX hunt (there will be no summer Cub FOX Hunt this year--thanks). There will only be spaces for 10 FOXes, so it could be that not all volunteers can be selected. But if you are interested in being considered, please send me a quick note.

Later I will likely post an on-line form to be completed. But for now please let me know of your interest. Please send your replies to me at lindsey425@cs.com.

The hunt will be held on ten consecutive Thursday evenings, beginning on June 27, 2002. The hunt will be on 20 Metres again this summer. A more formal announcement will be made very soon. Also, there will be a web page with complete details about the rules, sked, bios of the FOXes and results.

So everyone, get those antennas tuned up and those rigs tweaked up for a great summer of FOX hunting. I look forward to hearing from you soon.

73,  
--Doc/K0EVZ

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Outgoing mail is certified Virus Free.  
Checked by AVG anti-virus system (<http://www.grisoft.com>).  
Version: 6.0.371 / Virus Database: 206 - Release Date: 6/13/2002

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End of QRP-L Digest 2585

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